

**2002 ANNUAL REPORT OF  
ELECTRIC SERVICE RELIABILITY**

**Provided by:**

**Interstate Power and Light Company**

**Filed  
July 11, 2003**

July 10, 2003

**[411.120 (b(3) A)]:**

**A plan for future investment and, where necessary, reliability improvements for the jurisdictional entity's transmission and distribution facilities that will ensure continued reliable delivery of energy to customers and provide the delivery reliability needed for fair and open competition, along with the estimated cost of implementing the plan and any changes to the plan from the previous annual report.**

- i. The plan must cover all operating areas, including a description of the relevant characteristics of each operating area and the age and condition of the jurisdictional entity's equipment and facilities in each operating area.**

**Dubuque Zone**

The Illinois portion of the Dubuque zone consists of seven distribution substations. Interstate Power and Light Company (IPL) owns no transmission substations. All of these distribution substations are served from the 69 kV system. Distribution voltages are 4.16kV, 12.47kV or 13.8kV. There are a total of eleven feeders, 9 owned by IPL, 2 customer owned, served by these substations. The Galena 161/69 kV substation, owned by Dairyland Power Cooperative feeds the 69 kV system that serves the distribution substations. IPL owns 14.26 miles of 69 kV line that provides service to the 7 distribution substations. The remaining 69 kV line serving IPL substations is owned by Dairyland Power Cooperative. The 161 kV line serving the Dairyland Power 161/69 kV Galena substation runs from Dubuque, Iowa through Galena, and ultimately crosses the Mississippi River to Clinton, Iowa. This Illinois 161kV line, which is 73 miles long, is owned by IPL.

The Sandridge substation is dedicated to serving a single industrial customer (Royster Clark). There are two 4.16 kV customer owned feeders that exit this substation..

There is a total of 166 miles of distribution line on the nine IPL owned feeders.

The other 6 substations (East Dubuque, Frentress Lake, West Galena, Downtown Galena, Longhollow and Elizabeth substations serve primarily small towns and does include some rural areas. The towns served from these substations are Galena, East Dubuque, and Elizabeth. IPL also provides service to the Municipal Utility of Hanover, which owns its substation.

The Elizabeth substation has a 69/34.5 transformer that serves a radial 34.5kV line to the city of Hanover's distribution substation. This 34.5 kV line is approximately 6.5 miles long and is owned by IPL. The East Dubuque, Frentress Lake, Sandridge, West Galena and Downtown Galena substations are fed directly from the IPL 69 kV system. The Longhollow and Elizabeth substations are fed from Dairyland Power's 69 kV system.

The total load served is 47.5 MVA. Of this 14 MVA is Royster Clark, 1.5 MVA is the Hanover Municipal load. East Dubuque Sub load 3.8 MVA, Frentress Lake load is 5.9 MVA, West Galena load is 8.4 MVA, Downtown Galena load is 7.3 MVA, Longhollow Sub load is 1.7 MVA, and Elizabeth load is 4.9 MVA.

### **Clinton Zone**

The Clinton Zone Illinois region service territory includes the towns of Savanna, Mount Carroll, Thompson, Chadwick, and rural areas in-between. A 161 kV and 138 kV networked transmission system supplies the region. There is one 161/138 KV substation (Albany) and two 161/34 kV substations (York and Savanna). The Albany transmission substation ties the Com Ed 138 KV system to the IPL 161 KV system. At the Albany substation there is a 161 KV line to Beaver Channel in Iowa, and also a 161 KV line to York. From the York substation there are 161 KV lines to Albany and Savanna. The Savanna transmission substation has a 161 KV tie to York and Galena. At Savanna there is also a 161/69 kV transformer with a line to two Dairyland Power distribution substations. There is 40 miles of 34.5 KV subtransmission from the York and Savanna substations that loop through the region to serve several 13.8 kV and 4.16 kV distribution substations. There are 20 distribution feeders in the region that are typical distribution feeders having multiple customers and significant distance.

There are two dedicated substations to customers: Danisco and Metform. Albany Municipal is served from the Albany substation. The town of Savanna is served by the Savanna East, North Savanna, Savanna 3<sup>rd</sup> Street, and Eaton Substations. The remaining substations, Savanna 161 kV, York, Argo Fay, and Mt. Carroll, feed the rural area in the region.

There is a total of 288 miles of distribution line on the twenty IPL owned feeders.

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There is a total of 288 miles of distribution line on the twenty IPL owned feeders.

The total load served is 33.6 MW. Of this 5.3 MW is Danisco load, 4.6 MW is Metform, 1.3 MW is the Albany Municipal load, Savanna town is 7.8 MW, and the remaining rural subs total 14.6 MW. In the future the York Prison will have significant load served from the York substation.

- ii. **The plan shall cover a period of no less than three years following the year in which the report was filed.**

### **Dubuque Zone**

Planning has long-range (10 years) transmission study that is presently in the review process. This study covers the transmission system in northwestern Illinois. Pending the final outcome of the review, the recommendations for system improvements will be pursued in conjunction with other projects at IPL. It is expected this plan will be finalized by September 30, 2003.

In addition to the current transmission plan, IPL will begin a long-range distribution system study in the summer of 2003. This study will address capacity and reliability concerns in the area. It is expected this plan will be finalized by summer of 2004.

There are several projects that are planned in the 2003-2004 time frames in the Dubuque zone. In 2002, overhead distribution was placed underground at the request of the City of Galena who was also responsible for the entire cost of the project. Also in 2002, approximately 1.2 miles of overhead distribution line was rebuilt near the West Galena substation as a result of Highway 20 road widening. In 2004 there are presently 2 overhead distribution line rebuilds planned for the Dubuque zone. They are rebuilds near Elizabeth and Woodbine, IL. Both of these lines are being rebuilt as a result of line inspections identifying poor physical condition.

### **Clinton Zone**

Presently there are no plans to perform planning studies for the Illinois area distribution or transmission system of the Clinton zone. The present system has performed reliably and load growth is marginal. Annually priorities are developed for study areas. This area will be evaluated in 2004 to determine if studies are warranted at that time.

There are a number of projects planned in the 2003-2005 time frame. Savanna structure improvements and pole replacement is planned for 2003 to replace insulators, add an arrestor on the top phase of each structure and improve grounding to enhance the lightning protection. In addition 8 rejected structures are planned to be replaced. A line rebuild of 1.8 miles of rural line near Savanna that is due to poor condition is planned for 2004. In 2003 the Albany 161/138 kv transformer will be replaced due to a failure of the unit that has been in service in this substation. In 2004, replacement of a 34/13.8 kv transformer is planned to provide back-up to the area as a result of the construction of a new prison. In 2005, distribution feeder metering will be installed at the York substation as part of an on-going project to install metering to gather better system information.

- iii. **The plan shall identify all foreseeable reliability challenges and describe specific projects for addressing each.**

**Dubuque Zone & Clinton Zone**

In addition to resolving the capacity issues identified in the study, no major reliability issues are foreseen in the next 10 years. However, IPL will continue to manage the reliability of the system through our on going capital and maintenance processes. These processes will involve the following activities.

- Substation predictive maintenance – on an annual cycle IPL inspects and tests substation equipment to insure that it remains in good health. This process allows us to identify operating issues with equipment before it creates an outage condition.
- Underground distribution age – currently underground cables that experience a failure are reviewed by engineering to insure that they do not become a reliability concern. Once a cable has been identified as a reliability concern, a project is created to replace it. A reliability concern is one where a cable is either 25 years of age or has experienced more than 3 failures.
- Overhead distribution age - currently overhead systems that are over 60 years of age are monitored to insure that they do not become a reliability issue. Review of the system is done through normal line inspection and regular review of reliability reports. When a circuit is found to have reliability performance issues a root cause analysis is conducted to determine appropriate actions. Considerations include reliability performance, physical condition, and age. Upon completion of the root cause analysis appropriate action is taken, which may include the creation of a project.
- Line clearance maintenance – IPL has plans to spend over \$450,000 on line clearance activities over the next 3 years. This will allow IPL to keep tree related outages to an acceptable level.

- iv. **The plan shall provide a timetable for achievement of the plan's goals.**

**Dubuque Zone**

The list of projects below represent the current planned improvements for IPL-Illinois Dubuque zone. These projects were selected over other alternatives based on their ability to improve system performance at the most reasonable cost.

Galena Commerce St UG	\$0	2002
Galena HWY 20 Road Move	\$230,000	2002
Line Rbld near Woodbine, IL	\$65,000	2004
Line Rbld near Elizabeth, IL	\$70,000	2004

**Clinton Zone**

The list of projects below represent the current planned improvements for IPL-Illinois Clinton zone. These projects were selected over other alternatives based on their ability to improve system performance at the most reasonable cost.

Albany Transformer Replacement	\$1,260,000	2003
Savanna 161-34.5 kv Rpl 11 Structures	\$63,000	2003
Savanna 161-34.5 kv, 8Mi Stru Improvmt	\$104,000	2003
Oakville Rd Rural Rebuild 1.8Mi 3PH	\$43,000	2004
Replace York Xformer for full backup	\$860,000	2004
Clinton York Sub Metering	\$30,000	2005

- v. **The plan shall report and address all unresolved reliability complaints about the jurisdictional entity's system received from other utilities, independent system operators, and alternative retail electric suppliers.**

**Dubuque Zone & Clinton Zone**

IPL has no unresolved reliability complaints in these zones.

- vi. **The plan shall report the specific actions, if any, the jurisdictional entity is taking to address the concerns raised in such complaints received from other utilities, independent system operators, and alternative retail electric suppliers.**

**Dubuque Zone & Clinton Zone**

No plan of action is required.

- vii. **The plan must consider all interruption causes listed in Section 411.120(b)(3)(D).**

**Dubuque Zone & Clinton Zone**

With the planned continuation of ongoing activities as listed in section 411.120 b) 3) A) iii controllable outages will continue to be managed to reasonable levels.

- viii. The plan must consider the effects on customers and the cost of reducing the number of interruptions reported as required by Section 411.120(b)(3)(C).

**Dubuque Zone & Clinton Zone**

The list of projects above represent the current planned improvements for IPL-Illinois Dubuque zone. These projects were selected over other alternatives based on their ability to improve system performance at the most reasonable cost.

**[411.120 b) 3) B):**

A report of the jurisdictional entity's implementation of its plan filed pursuant to subsection (b)(3)(A) for the previous annual reporting period, including an identification of significant deviations from the first year of the previous plan and the reasons for the deviations.

Prior to 2002, ILP-Illinois was exempt from filing annual reliability reports pursuant to Illinois Administrative Code 411.110(b).

**[411.120 b) 3) C):**

The number and duration of planned and unplanned interruptions for the annual reporting period and their impacts on customers.

**Planned and Unplanned Interruption**

Interruption Type	Number of Interruptions	Average Duration (per interruption)
Planned *	1	*
Unplanned	259	974,115 Minutes

\*During the year 2002, it was not our standard procedure to track planned outages in our outage management system and so we do not have a complete record of planned outage minutes. We have begun doing so in 2003.

On average IPL-IL customers experienced less than 1 outage with an average duration of 87 minutes. These outages may have imposed some customer inconveniences or loss of productivity based upon when they occurred.

**[411.120 b) 3) D):**

The number and causes of controllable interruptions for the annual reporting period.

**Controllable Interruptions**

CAUSE	NUMBER
Tree Growth	17
Planned	1
Overload	5

**[411.120 b) 3) E]:**

**Customer service interruptions that were due solely to the actions or inactions of another utility, another jurisdictional entity, independent system operator, or alternative retail electric supplier for the annual reporting period.**

IPL customers experienced no outages in 2002 that were caused solely by other utilities, jurisdictional entities, independent system operators or alternative retail suppliers.

**[411.120 b) 3) F]:**

**A comparison of interruption frequency and duration for customers buying electric energy from the jurisdictional entity versus customers buying electric energy from another utility or alternative retail electric supplier for the annual reporting period. A jurisdictional entity may base this comparison on each customer's supplier as of December 31. A jurisdictional entity need not include this information for customers whose electric energy supplier is not known to the jurisdictional entity.**

At this time IPL has no customers that receive power from an alternative retail supplier.



**[411.120 b) 3) G):**

A report of the age, current condition, reliability and performance of the jurisdictional entity's existing transmission and distribution facilities, which shall include, without limitation, the data listed below. In analyzing and reporting the age of the jurisdictional entity's plant and equipment, the jurisdictional entity may utilize book depreciation. Statistical estimation and analysis may be used where actual ages and conditions of facilities are not readily available. The use of such techniques shall be disclosed in the report.

i)]: A qualitative characterization of the condition of the jurisdictional entity's system defining the criteria used in making the qualitative assessment, and explaining why they are appropriate.

IPL-Illinois distribution system has 15,852 poles in-service with an estimated average age of approximately 22 years, based on asset accounting records. Based on these records no poles are older than 50 years of age. IPL-Illinois as has 1,874 transmission poles in-service with an estimated average age of approximately 16 years. Of the 1,874 poles 221 are estimated to be over 50 years of age.

Through the use of pole testing data IPL has determined that poles typical have a life expectancy of 50 to 60 years. Because very few poles are estimated to be over 50 years the condition of the system is considered to be in good condition.

The SBWG&E distribution system also includes 4 substations. Based on condition assessments of the major components, infrared scans, major component age and existing corrective and preventative maintenance activities, each of these stations is currently in good working order.

Station Equipment	Average Age*
Battery Systems	12
Breakers	32
Bushings	35
Circuit Switchers	13
Fuses	5
Power Transformers	25
Reclosers	7
Switches	25
Voltage Regulators	11

\* Average age is an estimate based on information contained in Alliant Energy's maintenance management system.

ii)]: A summary of the jurisdictional entity's interruptions and voltage variances reportable under this Part, including the reliability indices for the annual reporting period.

	Clinton Zone	Dubuque Zone	IPL-IP System
SAIFI	0.66	1.04	.84
CAIDI (minutes)	101.43	107.26	104.82
CAIFI*	2.59	1.89	2.13

At this time Alliant Energy is working with the outage management software vender to correct issues with identifying customers impacted by an outage. Until this problem is resolved CAIFI will not always be accurate.

DESCRIPTION	# Of Interruptions	% Of Total Interruptions	Customer Minutes Out	% Customer Minutes Out
Weather - Lightning	127	48.8%	408030	41.8%
Weather - High Wind	14	5.4%	171041	17.5%
Equipment Failure - Equipment Failure	27	10.4%	158802	16.3%
Tree - Broken Limb	7	2.7%	99492	10.2%
Public - Accident/Outage by Others	8	3.1%	72663	7.4%
Wildlife - Animal	47	18.1%	31243	3.2%
Tree - Tree Growth	17	6.5%	25464	2.6%
Unknown	7	2.7%	6485	0.7%
Planned - Planned	1	0.4%	2192	0.2%
Equipment Failure - Overload	5	1.9%	895	0.1%
Total	260	100.0%	976307	100.0%

**iii)]:** The jurisdictional entity's expenditures for transmission construction and maintenance for the annual reporting period expressed in constant 1998 dollars, the ratio of those expenditures to the jurisdictional entity's transmission investment, and the average remaining depreciation lives of the entity's transmission facilities, expressed as a percentage of total depreciation lives.

Information on the average remaining depreciation lives was not available at the time of this filing. Depreciation expense for the years 1998 to 2002 has been provided above.

**iv)]:** The jurisdictional entity's expenditures for distribution construction and maintenance for the annual reporting period expressed in constant 1998 dollars, the ratio of those expenditures to the jurisdictional entity's distribution investment, and the average remaining depreciation lives of the entity's distribution facilities, expressed as a percentage of total depreciation lives.

Information on the average remaining depreciation lives was not available at the time of this filing. Depreciation expense for the years 1998 to 2002 has been provided above.

Transmission Plant

Acct	Description	Plant in Service 12/31/02	Average Age	Average Remaining Life
352	Structures & Improvements	35,142	21.4	23.6
353	Substation Equipment	4,319,720	15.8	24.2
354	Towers & Fixtures	1,313,847	0.3	49.7
355	Poles & Fixtures	1,904,066	12.2	24.8
356	OH Conductor and Devices	1,464,004	19.8	22.2
358	UG Conductor and Devices	61,934	-1	26

Electric Distribution Plant

Acct	Description	Plant in Service 12/31/02	Average Age	Average Remaining Life
361.0	Structures & Improvements	84,355.00	9.7	30.3
362.0	Substation Equipment	3,184,673.00	11.7	20.3
364.0	Poles, Towers & Fixtures	3,424,802.00	8.1	31.9
365.0	Overhead Conductors and Devices	3,243,184.00	20.2	19.8
366.0	Underground Conduit	267,552.00	11.8	28.2
367.0	Underground Conductors and Devices	2,064,794.00	12.4	21.6
368.0	Line Transformers	1,564,806.00	6.4	23.6
369.0	Services	516,103.00	3.8	28.7
370.0	Meters	443,042.00	4.7	24.3
373.0	Street Lighting & Signaling	581,375.00	-0.4	20.4
		15,374,686.00		

Average age was based on weighting of plant in service balances by vintage.

v)]; The results of a customer satisfaction survey completed during the annual reporting period and covering reliability, customer service, and customer understanding of the jurisdictional entity's services and prices.

The table below shows the mean rating, out of 10, by customer class.

	Residential	Non-Residential
Reliability	8.56	8.82
Service	8.48	8.80
Rates	6.94	7.37

**vi)]:** An overview pertaining to the number and substance of customers' reliability complaints for the annual reporting period and their distribution over the jurisdictional entity's operating areas.

In 2002 IPL-Illinois received 6 complaints pertaining to reliability and power quality. Five of the complaints were related to multiple outages and have been resolved. One was related to an extended outage due to a transformer failure and the transformer has been replaced. Two of the complaints were in the Clinton zone and 4 in the Dubuque zone.

**vii)]:** The corresponding information, in the same format, for the previous 3 annual reporting periods, if available.

For the past three years IPL-Illinois was exempt from filing a reliability report pursuant to 83 Ill. Adm. code part 411.120(b).

**[411.120 b) H)]:**

A table showing the achieved level of each of the three reliability indices of each operating area for the annual reporting period (provided however, that for any reporting period commencing before April 1, 1998, a jurisdictional entity will not be required to report the CAIFI reliability index)

Achieved Levels of Reliability Indices

	Clinton Zone	Dubuque Zone
SAIFI	0.66	1.04
CAIDI (minutes)	101.43	107.26
CAIFI	2.59	1.89

**[411.120 b) I):**

A list showing the worst-performing circuits for each operating area for the annual reporting period with the understanding that the designation of circuits as “worst-performing circuits” shall not, in and of itself, indicate a violation of this Part.

CIRCUIT #	SUB	Area Served	Voltage	District
8117	Mt Carroll	Mt. Car Hwy 78	13.8	Clinton
	Year	SAIFI	CAIDI	CAIFI
	2002	3.55	128.01	3.82
CIRCUIT #	SUB	Area Served	Voltage	District
8166	Argo Fay		13.8	Clinton
	Year	SAIFI	CAIDI	CAIFI
	2002	0.1	171.5	1.25
CIRCUIT #	SUB	Area Served	Voltage	District
8315	WEST GALENA SUB	WGAL MICROSWIT	13.8	Dubuque
	Year	SAIFI	CAIDI	CAIFI
	2002	2.26	189.2	2.46
CIRCUIT #	SUB	Area Served	Voltage	District
8317	West Galena	W Gal Town	13.8	Dubuque
	Year	SAIFI	CAIDI	CAIFI
	2002	2.71	120.08	2.79
CIRCUIT #	SUB	Area Served	Voltage	District
8314	West Galena		13.8	Dubuque
	Year	SAIFI	CAIDI	CAIFI
	2002	0.09	433.94	1
CIRCUIT #	SUB	Area Served	Voltage	District
8135	Savanna		13.8	Clinton
	Year	SAIFI	CAIDI	CAIFI
	2002	1.14	105.05	1.18

**[411.120 b) 3) J]):**

A statement of the operating and maintenance history of circuits designated as worst-performing circuits; a description of any action taken or planned to improve the performance of any such circuit (which shall include information concerning the cost of such action); and a schedule for completion of any such action. (The jurisdictional entity may decide, based on cost considerations or other factors, that it should take no action to improve the performance of one or more circuits designated as worst-performing circuits. If the jurisdictional entity decides to take no action to improve the performance of one or more circuits designated as worst-performing circuits, the jurisdictional entity shall explain its decision in its Annual Report).

**CIRCUIT 8315 West Galena Substation**

The substation recloser operated twice for a total of 400 outage minutes. Both operations were weather related. Approximately 0.5 miles of this circuit was rebuilt in 2002 as part of a Highway 20 road-widening project. The cost of this rebuild was \$115,000. This circuit was trimmed in 1999 and scheduled and will be trimmed again in 2004 based on existing plans at an estimated cost of \$10,000.

**Circuit 8117 Mt Carroll Substation**

This Clinton Zone circuit has a high SAIFI. It also had the highest SAIFI for the IPC area in Illinois. The substation recloser operated 3 times. There was no repeatable cause to the outages. One outage was due to trees, one was due to a blown arrester tail getting into the line, and the third is unknown. Line Clearance is scheduled for 2003 and 2007. No further action other than line clearance in 2003, at an estimated cost of \$25,000, is planned due to the nature of the outages that occurred in 2002.

**Circuit 8317 West Galena Substation**

This Dubuque Zone circuit has a high SAIFI. The substation recloser operated 2 times. One outage was due to high winds/bad weather; the other was caused by an accident/outage by others. There were numerous other outages, most due to blown fuses during inclement weather. This circuit was trimmed in 1999 and scheduled for line clearance in 2004 at an estimated cost of \$20,000. This circuit is a poor performer due to bad weather and an accident/outage by others. IPL believes that these incidents are abnormal events and plans no corrective action.

**Circuit 8166 Argo Fay**

CAIDI is why this circuit was identified as a poor circuit for the Clinton Zone. This circuit had 6 outages at the service that only affected 1 to 2 individual customers. Lightning was the major cause of the outages. 4 of the outages occurred during inclement weather on July 6 and 29. IPL will conduct a root cause analysis of this circuit to determine if additional lightning protection is required. If additional lightning protection is required a project will be created and will be pursued in conjunction with other projects at IPL. Line clearance will be performed in 2003 at an estimated cost of \$25,000.



**Circuit 8314 West Galena**

This circuit has a high CAIDI index. It's the highest for the IPC -IL and the Dubuque Zone. This circuit had a few isolated outages on Aug. 2 due to weather with individual customers experiencing outages that were long in duration. These customers also experienced one recloser operation for the entire circuit that lasted for 108 minutes. This circuit was trimmed in 1999 and is scheduled for line clearance in 2004 at an estimated cost of \$50,000. IPL believes that due to the nature of the events no further action is required.

**Circuit 8135 Savanna Sub.**

The substation recloser operated once in the reporting period. The substation regulators failed twice. When the regulators failed the first time a different set was installed which failed almost immediately. A new set was installed after the 2<sup>nd</sup> failure. No further action is planned. Line was trimmed in 2000 and will be done again in 2004 at an estimated cost of \$50,000.

**[411.120 b) 3) K]:**

Commencing June 10, 2001, tables or graphical representations, covering for the last three years all of the jurisdictional entity's customers and showing, in ascending order, the total number of customers which experienced a set number of interruptions during the year (i.e., the number of customers who experienced zero interruptions, the number of customers who experienced one interruption, etc.).

CUSTOMER INTERRUPTIONS	INDIVIDUAL CUSTOMER INTERRUPTIONS
0	6,758
1	1,578
2	1,274
3	1,092
4	313
5	88
6	6
7	24
8	1
9	1

**[411.120 b) 3) L):**

Commencing June 10, 2001, for those customers who experienced interruptions in excess of the service reliability Targets, a list of every customer, identified by a unique number assigned by the jurisdictional entity and not the customer's name or account number, and the number of interruptions and interruption duration experienced in each of the three preceding years, and the number of consecutive years in which the customer has experienced interruptions in excess of the service reliability Targets.

IPL-Illinois was exempt from maintaining data for the three years prior to this filing so we are unable to provide data to support this item.

**[411.120 b) 3) M):**

The name, address and telephone number of a jurisdictional entity representative who can be contacted for additional information regarding the Annual Report.

Any requests for additional information should be directed to:

Joe Ell  
Delivery System Planning Manager  
4902 North Biltmore Lane  
P.O. Box 77007  
Madison, WI 53707-1007

(608)-458-5760